

**MCDR INSPECTION REPORT**

Date of Inspection: 08/01/2025

**General**

S. N.	Particulars	Details
1	Name of the Mine	Adaghat Iron Ore Mines
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area (ha): 15.074 Ha (i) Forest Land (Ha)- 15.074 (ii) Private Land (ha)- 0 (iii) Revenue land (ha)- 0
3	Mine code	30ORI13067
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/45759/2023
5	Name of the lessee, Address, phone, email and fax number	Adaghat Iron Ore Mines, M/s Grewal Minerals and Metals LLP. At- Adaghat, P.O.- Patamunda, P.S- Koira, Dist- Sundargarh, Odisha, Pin- 770048. Mail id- <a href="mailto:neadaghatmines@gmail.com">neadaghatmines@gmail.com</a> , <a href="mailto:gapl_sponge@yahoo.co.in">gapl_sponge@yahoo.co.in</a>
6	Village	Adaghat
7	Taluka/Mandal	Koida
8	District	Sundargarh
9	Pincode	770048
10	State	Odisha
11	Post office	Patamunda
12	Nearest police station	Koida
13	Nearest Railway station	Barbil
14	Date of Grant of Mining Lease	11.01.2017
15	Date of Execution	11.01.2017
16	Date of opening of Mine	04.01.2020
17	Date of first Renewal, if applicable and its period & expiry	Mine started on 04.01.2020
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri Charanjit Singh Grewal, Sri Sonny Grewal, Sri Gurman Grewal, M/S Grewal Minerals and Metals LLP, Post Box No.- 44,Barbil, Keonjhar , Odisha- 758035
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	NA
22	Name of the Mines Manager with Address, phone,	Sri Sahadat Mandal, At/P.O-

	email, fax number and date of appointment in mines	P.S- Barbil, Dist- Keonjhar, Odisha. Mob- 9437536205, D.O.J- 01.01.2019.
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Priyabrata Nayak, Qualification- B.Tech in Mining Engineer, At/Po- Gobindpur Ps-Bhadrak, Dist-Bhadrak, Pin- 756112, 9437825003 Sri Amaresh Prasad Chakra, Qualification- B.Tech in Mining Engineer, At-Revenue Colony, Keonjhar, 758001, 8328877445
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Rajanikanta Nayak, Qualification- M.Sc Geology , At- Bisimatri, P.O- Nimapada, Puri Pin- 752113, Mob- 8917351167, D.O.J- 07.09.2022.
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.	Yes
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Approval Date- 13.05.2004 Modified plan- Date -09.11.2020
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	09/11/2020
28	Mineral(s) granted in lease and proved for mining	Iron Ore (Hematite)
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
31	Captive/Non Captive	Non Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

### Exploration

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
1a	Backlog of previous year	06 nos.	Nil (6 nos Done in FY 2024-2025)	Lessee has carried out 6 nos bore hole during FY 2024-2025 prior to the inspection.
1b	Exploration over lease area for Geological axis 1 or 2.	13.299 Ha.	10.98 Ha.	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	WCS Pvt. Ltd. 10.71 Lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2		2.74 ha	

1e	Balance reserves as per latest approved document		5.40 million tonne	As on 31.03.2024
1f	General remarks of inspecting officer on geology, exploration etc.	The lessee could not able to carried out the proposed exploration during the FY 2023-24, but completed in FY 2024-25 prior to the inspection. As per submitted AR of 2023-24 about 5.40 million tonnes of reserve available in the mine.		

### Development

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
2a	Location of development w.r.t. lease area	326250,2425350 326400,2425350 325820,2425580 326115,2425770	326245,2425348 326400,2425528 325820,2425580 326110,2425768	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Width-8 Length- 8	Width-8 Length- 8	
2c	Stripping ratio or ore to OB ratio	0.09	0.08	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	32616.0000	10787.0000	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc	The lessee has been carried out the development work well within the proposed location but could not achieved the targeted proposal due to obtaining the statutory clearances during the last quarter of the FY 2023-24.		

### Exploitation

N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
3a	Number of pits proposed for production	2 nos.	2 nos.	
3b	Quantity of ROM mineral production proposed	699849.4600	399667.5000	
3c	Recovery of salable/usable mineral from ROM production	611668.43	384500.86	
3d	Quantity of mineral reject generation	88181.030	15166.640	
3e	Grade of mineral reject generation and threshold value declared	54%	54%	
3f	Quantity of sub-grade mineral generation	88181.030	15166.640	
3g	Grade of sub-grade mineral generation	54 %	54%	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	

3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	
3j	Provision of drilling & blasting in mineral benches	Deep hole drilling and blasting	Deep hole drilling and blasting	
3k	Provision of mining machineries in mineral benches	Backhoe, Rock breaker, drill machine & Dumpers	Backhoe, Rock breaker, drill machine & Dumpers	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, it is proposed to keep the bench height up to 8 mtr for both Ore & OB benches.	Height and width of benches were more or less in order as per the proposal of the approved document.	
3m	Total area covered under excavation/pits	5.23 ha	5.23 ha	
3n	Ore to OB ratio for the pit/mine during the year	0.09	0.08	
3o	Total area put in use under different heads at the end of year	Mining- 5.23 Mineral storage- 3.46 Infrastructure Workshop, administrative building etc.- 0.20 Roads- 0.46 OB dump- 0.38 Others-0.4 Total area put to use- 10.38	Mining- 5.23 Mineral storage- 3.46 Infrastructure Workshop, administrative building etc.- 0.20 Roads- 0.46 OB dump- 0.38 Others-0.4 Total area put to use- 10.38	
3p	Production of ROM mineral during last six-year period, as applicable (MT) 2019-2020 2020-2021 2021-2022 2022-2023 2023-2024 2024-2025	2019- 2020-:300300 2020- 2021-:300300 2021- 2022-:300323 2022- 2023-:313778 2023- 2024-:699849.46	2019- 2020-:108416 2020- 2021-:299597 2021- 2022-:300192 2022- 2023-:300300 2023- 2024 :399667.5	
3q	General remarks of inspecting officer on method of	The lessee has been carried out the development & production/exploitation well within the proposed location and quantity but could not achieved the targeted proposal due to obtaining the statutory clearances during the last quarter of the FY 2023-24.		

**Solid Waste Management-Dumping**

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
4a	Separate dumping of topsoil, OB & mineral reject (Rule 33, 37)	OB Dump-1	OB Dump-1	
4b	Location of topsoil, <b>OB</b> & mineral reject dumps	N-2425869 E-3252805 N-2425840 E-325842 N-2425815 E-325800	N-2425869 E-3252805 N-2425840 E-325842 N-2425815 E-325800	
4c	Number of dumps within lease area and outside lease area	1 OB dump Within lease area	2 OB dumps Within lease area	1 OB dumps newly created within lease area during 2024-2025.
4d	Location of dumps w.r.t. ultimate pit limit	N-2425869 E-3252805 N-2425840 E-325842 N-2425815 E-325800	N-2425869 E-3252805 N-2425840 E-325842 N-2425815 E-325800	
4e	Number of active & alive dumps	1	1	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilized	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes, about 118 mtr of retaining wall and garland drains existing within the ML area along the waste dumps. Proposal for 27 mtr of retaining wall and garland drains during the FY 2023-24.	Yes, about 118 mtr of retaining wall and garland drains existing within the ML area along the waste dumps. During the FY 2023-24, about 45mtr of retaining wall and garland drains were constructed.	
4i	Length of Retaining wall or garland drain all along dump	Yes, about 118 mtr of retaining wall and garland drains existing within the ML area along the waste dumps. Proposal for	Yes, about 118 mtr of retaining wall and garland drains existing within the ML area along the waste dumps. During the FY	

		27 mtr of retaining wall and garland drains during the FY 2023-24.	2023-24, about 45mtr of retaining wall and garland drains were constructed.	
4j	Number of settling ponds	Nil	One	
4k	Specific comments of inspecting officer on waste dump management	The lessee has carried out the development and production well within the proposal but the lessee could not able to achieve the proposal during the reporting year due to obtaining the statutory clearances during the last quarter of the FY 2023-24. The lessee has constructed about 45mtr of retaining wall and garland drains against a proposal of 27mtr of retaining wall and garland drains during the reporting year.		

### Solid Waste Management-Backfilling

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	As the mine is not mature enough for backfilling and there was no such proposal for backfilling during the reporting year, hence the management of waste under Backfilling is nil. The lessee has also carried out as per the proposal i.r.o. waste management under Backfilling.		

### Progressive Mine Closure Plan

S. N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	As per Rule 26(2) Annual PMCP report to be submitted before 1st day of July of Every Year.	The lessee has submitted Annual PMCP report as per Rule 26(2) of MCDR 2017 within the stipulated period during the reporting year FY 2023-24.	
6b	Management of worked/mined	i. Nil	i. Nil	

	<p>out benches</p> <p>i) Area available for rehabilitation (ha)</p> <p>ii) Afforestation done (ha)</p> <p>iii) No. of saplings planted during the year</p> <p>iv) Cumulative no. of plants</p> <p>v) Any other specific method of rehabilitation</p> <p>vi) Cost incurred on watch &amp; care during the year</p>	<p>ii. Nil</p> <p>iii. Nil</p> <p>iv. Nil</p> <p>v. Nil</p> <p>vi. Nil</p>	<p>ii. Nil</p> <p>iii. Nil</p> <p>iv. Nil</p> <p>v. Nil</p> <p>vi. Nil</p>	
6c	<p>Compliance on reclamation and rehabilitation by backfilling</p> <p>i) Voids available for backfilling (L X B X D)</p> <p>ii) Void filled by waste/tailings</p> <p>iii) Afforestation on the backfilled area</p> <p>iv) Rehabilitation by making water reservoir</p> <p>v) Any other specific means</p>	<p>i. Nil</p> <p>ii. Nil</p> <p>iii. Nil</p> <p>iv. Nil</p> <p>v. Nil</p>	<p>i. Nil</p> <p>ii. Nil</p> <p>iii. Nil</p> <p>iv. Nil</p> <p>v. Nil</p>	
6d	<p>Compliance of Rehabilitation of waste land within lease</p> <p>i) Afforestation</p> <p>ii) Area rehabilitated (ha)</p> <p>iii) Method of rehabilitation</p>	<p>i) 625 nos of saplings</p> <p>ii) 2023-24= 0.25 Ha.</p> <p>iii) Plantation with 80% survival</p>	<p>i) 800 nos of saplings till date of inspection</p> <p>ii) 2023-24= 0.25 Ha.</p> <p>iii) Plantation with 72% survival</p>	
6e	<p>Compliance of Environmental monitoring (core zone &amp; buffer zone)</p>	<p>Environmental monitoring in Core zone and buffer zone will be as per MOEFCC and SPCB guidelines.</p>	<p>Environmental monitoring in Core zone and buffer zone were carried out as per MOEFCC and SPCB guidelines during the reporting year FY 2023-24.</p>	
6f	<p>General remarks of inspecting officer on PMCP compliance &amp; progressive closure operations</p>	<p>The lessee has carried out afforestation and environmental monitoring as per the proposal during the reporting year. As the mine is not enough mature during the reporting year, there was no such proposal of backfilling during the reporting year. The lessee has carried out the PMCP proposal and are more or less in order w.r.o. the proposals.</p>		

### Mineral Conservation

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
7a	ROM Mineral dispatch or grade-wise sorting within	Saleable Ore:	Saleable Ore:+54	

	lease area	+54 % Fe, Mineral Reject:- +45 to 54% Fe were proposed.	% Fe, Mineral Reject:- +45 to 54% Fe are being carried out.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	Saleable Ore: +54 % Fe, Mineral Reject:- +45 to 54% Fe were proposed.	Saleable Ore:+54 % Fe, Mineral Reject:- +45 to 54% Fe are being carried out.	
7d	Any beneficiation process at mines	Nil	Nil	No Such proposal during the reporting year.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Saleable Ore :+54 % Fe, Mineral Reject:- +45 to 54% Fe stocks are being practiced. Further no beneficiation process was proposed. Only crushing and screening are being carried out during the reporting year.		

### Environment

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
8a	Separate removal and utilization of topsoil (Rule 36)	No such proposal for the reporting year.	Incidental occurrence of very small amount of clay soil have been generated and concurrently utilized for plantation purpose till the date of inspection during the reporting year.	
8b	Concurrent use or storage of topsoil	No such proposal for the reporting year.	Incidental occurrence of very small amount of clay soil have been generated and concurrently utilized for plantation purpose till the date of inspection	



			during the reporting year.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Nil	Nil	There was no such proposal for generation of top soil and waste during the reporting year.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	There was no such proposal for generation of top soil and waste during the reporting year.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	There was no such proposal for generation of top soil and waste during the reporting year.
8f	Baseline information on existence of plantation & additional Plantation done	625 Nos of saplings will be planted over 0.25 Ha area with a survival rate of 80% within the lease area.	800 Nos of saplings have been planted over 0.25 Ha area with a survival rate of 72% within the lease area during the reporting year.	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling by water tanker over haul roads has been carried out during the reporting year.	Water sprinkling by water tanker and mobile water sprinklers over haul roads has been carried out by using 2 nos of water tankers and fixed water sprinkler system during the reporting year.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The lessee could not achieve the targeted proposal during the reporting year, due to obtaining the statutory clearances during the last quarter of the FY 2023-24. However, the lessee has planted 800 no of saplings over 0.2.5 Ha area with a survival rate of		

		72% within the lease area and water sprinkling by water tanker and mobile water sprinklers over haul roads to control the airborne dust and to minimize the fugitive dust emission. This sustains the aesthetic beauty of the mine area.
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### Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto December 2024 A.R. Submitted upto FY 2023-24		
S.N.	Item	Details given in A.R. for the year 2023-24	Observation of I/Officer 2023-24	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Monthly returns and annual return for the reporting year have been submitted within the stipulated time period.	Monthly returns and annual return for the reporting year have been submitted within the stipulated time period.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1. Sri Sahadat Mandal - Mines Manager 2. Sri Priyabrata Nayak – Mining Engineer 3. Sri Rajanikanta Nayak - Geologist. were present during the inspection.	1. Sri Sahadat Mandal - Mines Manager 2. Sri Priyabrata Nayak – Mining Engineer 3. Sri Rajanikanta Nayak - Geologist. were present during the inspection.	
9d	Scrutiny of Annual return on afforestation	800 Nos of saplings have been planted over 0.25 Ha area with a survival rate of 72% within the lease area during the reporting year.	800 Nos of saplings have been planted over 0.25 Ha area with a survival rate of 72% within the lease area during the reporting year.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	15166.640 tons of mineral reject of +45 to 54% Fe were generated during FY 2023-	15166.640 tons of mineral reject of +45 to 54% Fe were generated	

		24.	during FY 2023-24.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock: Nil  Production: 399667.500 tons  Closing Stock : Nil	Opening Stock: Nil  Production: 399667.500 tons  Closing Stock : Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production Rs. 2082.25/- furnished in submitted Annual Return for FY 2023-24.	Cost of production Rs. 2082.25/- furnished in submitted Annual Return for FY 2023-24.	
9i	Scrutiny of Annual return on fixed assets	Fixed Asset: Rs.1266729151/-, furnished in the annual return of the reporting year.	Fixed Asset: Rs.1266729151/-, furnished in the annual return of the reporting year.	
9k	Scrutiny of Annual return on mining machineries	BACK HOE 1.500 CUM 1 Non Electrical Opencast  BACK HOE 1.400 CUM 1 Non Electrical Opencast  FRONT END LOADER 3.000 CUM 1 Non Electrical Opencast  DUMPER 25.000 TONNE 7 Non Electrical Opencast  BACK HOE 2.500 CUM 2 Non Electrical Opencast  BACK HOE 1.200 CUM 1 Non Electrical Opencast	BACK HOE 1.500 CUM 1 Non Electrical Opencast  BACK HOE 1.400 CUM 1 Non Electrical Opencast  FRONT END LOADER 3.000 CUM 1 Non Electrical Opencast  DUMPER 25.000 TONNE 7 Non Electrical Opencast  BACK HOE 2.500 CUM 2 Non Electrical Opencast  BACK HOE 1.200 CUM 1 Non Electrical Opencast  FRONT END LOADER 2.500 CUM 2 Non Electrical Opencast  ROCK DRILL	

		<p>FRONT END LOADER 2.500 CUM 2 Non Electrical Opencast</p> <p>ROCK DRILL (NON-ELEC.) 100.000 MM 1 Non Electrical Opencast</p> <p>WATER TANKER 2000.000 LITRE 2 Non Electrical Opencast</p> <p>CRUSHER 150.000 T/H 2 Non Electrical Opencast</p> <p>CONVEYOR (NON-ELEC.) 150.000 T/H 2 Non Electrical Opencast</p>	<p>(NON-ELEC.) 100.000 MM 1 Non Electrical Opencast</p> <p>WATER TANKER 2000.000 LITRE 2 Non Electrical Opencast</p> <p>CRUSHER 150.000 T/H 2 Non Electrical Opencast</p> <p>CONVEYOR (NON-ELEC.) 150.000 T/H 2 Non Electrical Opencast</p>	
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